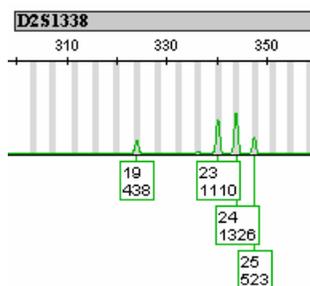


# DNA MIXTURE INTERPRETATION WORKSHOP & WEBCAST



National Institute of Standards and Technology  
**April 12, 2013**

<http://www.nist.gov/oles/forensics/dna-analyst-training-on-mixture-interpretation.cfm>

## *Presenters:*

John M. Butler, PhD	National Institute of Standards and Technology
Michael D. Coble, PhD	NIST, Applied Genetics Group
Robin W. Cotton, PhD	Boston University, Biomedical Forensic Sciences
Bruce J. Heidebrecht, MS	Maryland State Police, Forensic Sciences Division
Charlotte J. Word, PhD	Consultant

Organized by John Paul Jones II,  
NIST Law Enforcement Standards Office

**FORENSIC  
SCIENCES**

Points of view are those of the presenters and do not necessarily represent the official position or policies of the US Department of Justice or the National Institute of Standards and Technology. Certain commercial equipment, instruments and materials are identified in order to specify experimental procedures as completely as possible. In no case does such identification imply a recommendation or endorsement by the National Institute of Standards and Technology nor does it imply that any of the materials, instruments or equipment identified are necessarily the best available for the purpose.

# NIST DNA Mixture Interpretation Workshop & Webcast April 12, 2013



<b>Times (approximate)</b>	<b>Topic</b>	<b>Presenter</b>
<u>Introduction and Need</u>		
8:30 - 8:35 a.m.	Welcome	John Paul Jones II
8:35 - 9:00 a.m.	History - Why There's a Need for Improvement and Training	Robin Cotton
<u>Fundamental Principles of Interpretation and Statistics</u>		
9:00 - 9:45 a.m.	Introduction to Interpretation Issues (thresholds)	John Butler
9:45 - 10:30 a.m.	Statistical Approaches	Mike Coble
10:30 - 10:45 a.m.	BREAK	
<u>Worked Examples and Report Wording</u>		
10:45 a.m. - 11:45 a.m.	Worked Examples & Report Wording	Bruce Heidebrecht
11:45 a.m. - 12:15 p.m.	Different Assumptions & Different Interpretations	Charlotte Word
12:15 - 1:00 p.m.	LUNCH	
<u>Complex Mixtures, Software, and SOPs</u>		
1:00 - 2:00 p.m.	Complex Mixtures (3 & 4 person, relatives)	Charlotte Word
2:00 - 2:45 p.m.	Probabilistic Genotyping	Mike Coble
2:45 - 3:15 p.m.	Updating SOPs and Improving the Lab Process	Bruce Heidebrecht
3:15 - 3:30 p.m.	BREAK	
<u>Low Level DNA Mixtures and Validation</u>		
3:30 - 4:10 p.m.	Low Temple DNA Challenges and Validation Suggestions	John Butler
<u>Court Testimony</u>		
4:10 - 5:00 p.m.	Court and Expert Witness Testimony	Robin Cotton
<u>Perspectives on the Future</u>		
5:00 - 5:30 p.m.	What We Have Learned and Recent Literature	John Butler